IN THE SPECIFICATION:

Please amend the title to read as follows:

-- **METHOD FOR FORMING A BEARING RACE FOR A CYLINDRICAL BEARING** --

At page 5, line 19, please replace the paragraph beginning, "Fig. 1 is an explanatory view..." to the following:

-- Figs. 1(a) and 1(b) are explanatory views showing an embodiment of the invention in which a bearing part according to the present invention and a needle roller bearing having a long life roller are applied to a planet gear supporting mechanism of a planetary gear transmission. --

IN THE CLAIMS:

Please cancel claims 1-2 without prejudice.

Please amend claim 3 as shown in the clean copy below:

3. (Amended) A method for producing a bearing structure, comprising:

carbonitriding a surface of a bearing part to form a layer containing 30 to 80% retained austenite for contacting a surface carburizing layer used as a rolling raceway surface of the roller of the cylindrical bearing;

forming one of a cylindrical roller bearing and a needle roller bearing;

carbonitriding a surface of said bearing to produce an amount of retained

austenite in a surface layer that is increased by about 30%;

subjecting a surface layer of said roller to a heat treatment effective to apply a residual compression stress; and then

subjecting said roller to a surface finishing which produces micro concavo-convex portions in a random direction.

Please add the new claims shown below:

4. (New) A method for forming a rolling raceway surface for a cylindrical bearing comprising:

carburizing a surface of said rolling raceway surface to produce a carburized layer;

carbonitriding a surface layer of said carburized layer; and

the step of carbonitriding including forming a surface layer containing from 30 to 80 % retained austenite in said rolling raceway surface.

5. (New) The method according to claim 4, further comprising:

surface finishing a surface of said surface layer after the step of carbonitriding; and

the step of surface finishing being effective to produce a surface having a cylindricity and a surface roughness suitable for use as a rolling raceway surface.

6. (New) The method according to claim 5, wherein the step of finishing includes producing micro concavo-convex portions in random directions on said surface.